EXHIBIT 3

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12	UNITED STATES DISTRICT COURT	
13	NORTHERN DISTRICT OF CALIFORNIA	
14	IN RE PERSONALWEB TECHNOLOGIES, I	LLC, Case No. 5:18-md-02834-BLF
15	ET AL., PATENT LITIGATION	
16	PERSONALWEB TECHNOLOGIES, LLC a	and Case No. 5:18-cv-05619-BLF
17	LEVEL 3 COMMUNICATIONS, LLC,	RESPONSES AND OBJECTIONS OF
18	Plaintiffs,	TWITCH INTERACTIVE, INC. TO PERSONALWEB TECHNOLOGIES,
19	V.	LLC'S THIRD SET OF REQUESTS FOR PRODUCTION (NOS. 84–115)
20	TWITCH INTERACTIVE, INC.,	
21	Defendant.	
22	PROPOUNDING PARTY: PERSO	NALWEB TECHNOLOGIES, INC.
23	RESPONDING PARTY: TWITC	H INTERACTIVE, INC.
24	SET NUMBER: THREE	(84–115)
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Pursuant to Rules 26 and 34 of the Federal Rules of Civil Procedure, Twitch Interactive, Inc. (hereafter, "Twitch"), by and through their counsel, hereby responds to Plaintiffs, of PersonalWeb Technologies, LLC ("PersonalWeb"), Third Set of Requests for Production (Nos. 84-115) as follows:

GENERAL OBJECTIONS

The following general objections are stated with respect to each and every document request whether or not specifically identified in response thereto. To the extent any of these general objections are not raised in any particular response, Twitch does not waive those objections.

- 1. Twitch objects to each and every definition and request as overly broad, unduly burdensome, and not proportional to the needs of the case because they are not limited to a specific geographic area. Twitch will only provide discovery with respect to the United States.
- 2. Twitch objects to the definitions of "You," "Your," or "Twitch" because it seeks to broaden the scope of allowable discovery and seeks information that is not within the possession, custody, or control of Twitch, but is in the possession of third-parties and non-parties to this lawsuit. Twitch further objects to the definition of these terms to the extent it includes Twitch's attorneys and patent agents and seeks privileged and attorney-work product information. Twitch will interpret these terms as referring to Twitch Interactive, Inc. only.
- 3. Twitch objects to the definition of "Accused Instrumentality" because it seeks to broaden the scope of allowable discovery and seeks information relating to all of Twitch's web servers, beyond the scope of the accused technology in this action. Twitch will interpret this term as referring to Twitch.tv only.
- 4. Twitch objects to the definition of "Content-Based ETag" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity. Twitch will interpret this term as an ETag calculated based on contents of a corresponding file.
- 5. Twitch objects to the definition of "Fingerprint" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity. Twitch will interpret this term as a Ruby on Rails fingerprint or a

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similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

- 6. Twitch objects to the definition of "Cache-Busting" as vague, ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case as it does not identify the item or feature with specificity, and PersonalWeb does not explain what is meant by "valid" content.
- 7. Twitch objects to the definition of "Relevant Time Period" as overly broad, unduly burdensome, and not proportional to the needs of the case. Twitch will interpret this phrase as meaning from September 14, 2012 to December 26, 2016.
- 8. Twitch objects to the definition of "Meeting" as overly broad and unduly burdensome, vague and ambiguous, not proportional to the needs of this case, and failing to describe the information sought with reasonable particularity.
- 9. Twitch objects to the definition of "Document" as overly broad and unduly burdensome, vague and ambiguous, not proportional to the needs of this case, and failing to describe the information sought with reasonable particularity. Twitch will not search for documents that are not within its possession, custody, or control.
- 10. Twitch objects to the definition of "Thing" as overly broad and unduly burdensome, vague and ambiguous, not proportional to the needs of this case, and failing to describe the information sought with reasonable particularity.
- 11. Twitch objects to these requests and definitions to the extent that they seek to impose duties beyond those required by the Federal Rules of Civil Procedure and the Local Rules of this district. Twitch's responses shall be made only in accordance with the applicable rule(s).
- 12. Twitch objects to these requests to the extent that they seek information equally available to PersonalWeb in the public domain or that is already in the possession, custody, or control of PersonalWeb.
- 13. Twitch objects to these requests to the extent that they seek information that is in the possession, custody, or control of parties over whom Twitch has no control.
 - 14. Twitch objects to each and every instruction, definition, and request to the extent

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that it seeks the disclosure of information protected by the attorney-client privilege, the attorney work-product doctrine, or any other applicable privilege, immunity, or protection, as provided by any applicable law. Twitch does not intend to disclose such privileged or protected information. Twitch's inadvertent disclosure of any such information should not be deemed a waiver of any privilege, immunity, or protection, and Twitch expressly reserves the right to object to the introduction at trial or to any other use of such information that may be inadvertently disclosed. Twitch objects to discovery of attorney-client privileged communications after the filing of this lawsuit and to discovery of work-product materials generated after the filing of this lawsuit.

- 15. Twitch objects to these requests to the extent they purport to include email. Email production is not required in patent cases, and any request for email is unduly burdensome and not proportional to the needs of the case. (See, e.g., Court's [Model] Stipulation & Order Re: Discovery of Electronically Stored Information for Patent Litigation ("General ESI production requests . . . shall not include email or other forms of electronic correspondence.").)
- 16. The responses given herein shall not be deemed to waive any claim of privilege or immunity Twitch may have as to any response, document, or thing, or any question or right of objection as to authenticity, competency, relevancy, materiality, admissibility, or any other objection Twitch may have as to a demand for further response to these or other requests, or to any objection to the use of such information, documents, or things in any other proceeding filed after the production of such information or documents.
- 17. Nothing contained herein may be construed as an admission relative to the existence or non-existence of any document, and no response may be construed as an admission with respect to the relevancy or admissibility in evidence of any statement or characterization contained in these requests or respecting the authenticity, competency, relevancy, materiality, or admissibility of any document or thing referenced by these requests.
- 18. Discovery in this matter is ongoing and Twitch reserves the right to revise or supplement any response herein.
- 19. These General Objections are applicable to and are incorporated in each specific response herein without further reference. The inclusion of specific objection(s) in response to any

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Requests for Production shall not be construed as a waiver of such objection(s), or any of these objections, in any other response.

RESPONSES AND OBJECTIONS

Subject to the foregoing General Objections, which are incorporated by reference as if set forth fully in each and every response, Twitch also specifically responds and objects to the Document Request as follows:

REQUEST FOR PRODUCTION NO. 84:

All Documents reflecting any use of HTTP by the Accused Instrumentality to deny content requested by a Twitch customer or end user who has not paid for the content and/or does not have a subscription to access the content.

RESPONSE TO REQUEST FOR PRODUCTION NO. 84:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request to the extent it seeks information that is neither relevant to

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any claim or defense in this action nor proportional to the needs of the case. The accused instrumentality is a website which necessarily uses HTTP, the required industry standard. Thus, this request seeks information that is not accused or related to any infringement theories.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents reflecting any use of HTTP by the Accused Instrumentality" without connection to any accused functionality in the case.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show the technical design, operation, and functionality of the accused features of Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents existed in Twitch's possession, custody, or control and can be identified upon a reasonable search.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 85:

All Documents reflecting any use of HTTP by the Accused Instrumentality showing that a Twitch customer or end user is authorized to receive or use requested content or showing the duration for which cached content is permitted to be used without obtaining reauthorization.

RESPONSE TO REQUEST FOR PRODUCTION NO. 85:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

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Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined terms "authorized" and "reauthorization" and the use of those terms in this request. To the extent PersonalWeb uses these terms to imply its proposed claim constructions, Twitch objects to such use as PersonalWeb's proposed constructions are not supported by the intrinsic and extrinsic evidence and have not been adopted by the Court.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents reflecting any use of HTTP by the Accused Instrumentality" without connection to any accused functionality in the case.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show caching parameters used by Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 86:

All Documents showing the arrival or receipt of HTTP Conditional GET Requests at the Accused Instrumentality server(s), including server logs showing such arrival and/or receipt, and the date or time stamping of same.

RESPONSE TO REQUEST FOR PRODUCTION NO. 86:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions. For example, Twitch objects to the undefined phrase "server logs" as

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vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll documents showing the arrival or receipt of HTTP Conditional GET Requests" as the request spans several years and Twitch.tv processes numerous transactions daily.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show the receipt of HTTP Conditional GET requests by Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 87:

All Documents regarding the configuration of Your web server(s) of the Accused Instrumentality during the Relevant Time Period, including, without limitation, all configuration files and/or configuration parameters as well as any scripts or programs used to manage its configuration and/or operation.

RESPONSE TO REQUEST FOR PRODUCTION NO. 87:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

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Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrases "configuration of Your web server(s)," "configuration parameters," and "scripts or programs use to manage its configuration and/or operation" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as they do not identify the items or features with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding the configuration of Your web server(s)" without connection to any accused functionality in the case.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch has already made available for inspection, pursuant to the terms of the protective

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order, source code reflecting the operation of the accused Twitch.tv website available in the United States, including the revisions to that code that existed between September 14, 2012 through December 26, 2016.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 88:

All Documents identifying Your web server(s) of the Accused Instrumentality and/or their location during the Relevant Time Period.

RESPONSE TO REQUEST FOR PRODUCTION NO. 88:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

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Twitch objects to this request because it is grossly overbroad and is not relevant to any issue in this case. For example, the request on its face seeks information relating to web servers that Twitch relies on, including their location, even if servers are not directly related to provision of the specific Twitch.tv services and features accused in this litigation. Twitch's use of web server networks, without specific limitations to Twitch.tv, is not relevant to this case.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "web server(s)" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents identifying Your web server(s)" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 69 and 86.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch has already made available for inspection, pursuant to the terms of the protective order, source code reflecting the operation of the accused Twitch.tv website available in the United States, including the revisions to that code that existed between September 14, 2012 through December 26, 2016.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 89:

All source code and documents regarding the use of Ruby on Rails as part of Your Accused Instrumentality.

RESPONSE TO REQUEST FOR PRODUCTION NO. 89:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege,

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attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information not in Twitch's possession, custody or control.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "the use of Ruby on Rails as part of" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as

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vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll source code and documents" without connection to any accused functionality in the case.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch has already made available for inspection, pursuant to the terms of the protective order, source code reflecting the operation of the accused Twitch.tv website in the United States, including the revisions to that code that existed between September 14, 2012 through December 26, 2016.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 90:

All Documents regarding the adoption of Content-Based ETags or the ability to respond to HTTP Conditional GET Requests having Content-Based ETags by the web server of Your Accused Instrumentality during the Relevant Time Period.

RESPONSE TO REQUEST FOR PRODUCTION NO. 90:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

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Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to the term "Content-Based ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Content-Based ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "adoption of Content-Based ETags or the ability to respond to Conditional HTTP GET requests having Content-Based ETags by the web server" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding the adoption of Content-Based ETags or the ability to respond to HTTP Conditional GET Requests having Content-Based ETags by the web server" without connection to any accused functionality in the case.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce nonprivileged, non-protected documents sufficient to show the use of ETags and Conditional HTTP GET requests on Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control, can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 91:

All Documents regarding the data structures that stored Content-Based ETags in Your

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Accused Instrumentality during the Relevant Time Period.

RESPONSE TO REQUEST FOR PRODUCTION NO. 91:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term "Content-Based ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Content-Based ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome,

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and unintelligible. For example, Twitch objects to the undefined phrase "data structure" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding the data structures that stored Content-Based ETags."

Subject to and without waiving any objections, Twitch responds as follows:

Twitch has already made available for inspection, pursuant to the terms of the protective order, source code reflecting the operation of the accused Twitch.tv website in the United States, including the revisions to that code that existed between September 14, 2012 through December 26, 2016.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 92:

All Documents regarding the use of Content-Based ETags by Your Accused Instrumentality during the Relevant Time Period, including controlling or enabling the use of the Content-Based ETags by customers or end users.

RESPONSE TO REQUEST FOR PRODUCTION NO. 92:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any

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protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Content-Based ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Content-Based ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "controlling or enabling" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding the use of Content-Based ETags."

Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 1-2, and 5.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce nonprivileged, non-protected documents sufficient to show the use of ETags by Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control, can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 93:

All Documents regarding the transmission of HTTP Conditional GET Requests by

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customers or end users of Your Accused Instrumentality during the Relevant Time Period.

RESPONSE TO REQUEST FOR PRODUCTION NO. 93:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding the transmission of HTTP Conditional GET Requests."

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce nonprivileged, non-protected documents sufficient to show the processing of HTTP Conditional GET Requests by Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control, can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 94:

All web server source code used by Your Accused Instrumentality during the Relevant Time Period, or other documents showing how server logs were generated during the Relevant Time Period.

RESPONSE TO REQUEST FOR PRODUCTION NO. 94:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request because it is grossly overbroad and is not relevant to any issue in this case. For example, the request on its face seeks information relating to web servers that Twitch relies on, including their location, even if servers are not directly related to provision of the specific Twitch.tv services and features accused in this litigation. Twitch's use of web server

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networks, without specific limitations to Twitch.tv, is not relevant to this case.

Twitch further objects that the manner in which server logs are generated is not relevant to any issue in this case.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrases "web server" and "server logs" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as they do not identify the items or features with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents web server source code" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request No. 86.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch has already made available for inspection, pursuant to the terms of the protective order, source code reflecting the operation of the accused Twitch.tv website in the United States, including the revisions to that code that existed between September 14, 2012 through December 26, 2016.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 95:

All Documents identifying the locations of the web server(s) used by Your Accused Instrumentality during the Relevant Time Period.

RESPONSE TO REQUEST FOR PRODUCTION NO. 95:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects

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to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request because it is grossly overbroad and is not relevant to any issue in this case. For example, the request on its face seeks information relating to the location of any web servers that Twitch relies on, even if servers are not directly related to provision of the specific Twitch.tv services and features accused in this litigation. Twitch's use of web server networks, without specific limitations to Twitch.tv, is not relevant to this case.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "web server" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents identifying the locations of the web server(s)" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 69 and 86.

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Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show the location of web servers used by www.twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 96:

All Documents regarding any lump sum settlement, license fee or other payment that You have made to settle or otherwise resolve any accusation of patent infringement by a third party.

RESPONSE TO REQUEST FOR PRODUCTION NO. 96:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought

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with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about licenses which have no connection to the technology at issue here.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding any lump sum settlement, license fee or other payment that You have made to settle or otherwise resolve any accusation of patent infringement" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request No. 29.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch has already agreed to produce non-privileged, non-protected documents sufficient to show licenses related to the technology at issue during the time period of September 14, 2012 to December 26, 2016 for the United States in response to Request for Production No. 29.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 97:

All Documents regarding the importance of Cache-Busting by using Content-Based ETags or Fingerprints in connection with the Accused Instrumentality.

RESPONSE TO REQUEST FOR PRODUCTION NO. 97:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed

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to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to the term "Content-Based ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Content-Based ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "the importance of Cache-Busting" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents identifying Your web server(s)" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 43, 45, and 78.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show any value of caching to Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control

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and can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 98:

All Documents regarding any comparison You made between Cache-Busting by using Content-Based ETags or Fingerprints, as compared to other forms of Cache-Busting.

RESPONSE TO REQUEST FOR PRODUCTION NO. 98:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks

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information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term "Content-Based ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Content-Based ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "between Cache-Busting by using Content-Based ETags or Fingerprints, as compared to other forms of Cache-Busting" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents identifying Your web server(s)" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 43, 45, 78, and 97.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show any value of caching to Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

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REQUEST FOR PRODUCTION NO. 99:

All Documents regarding the history or evolution of Cache-Busting in connection with web serving and the Internet, and/or the importance of Cache-Busting in the development of the Internet.

RESPONSE TO REQUEST FOR PRODUCTION NO. 99:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain. Twitch objects to this request to the extent it seeks information not in Twitch's possession, custody or control.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term "Cache-Busting" on the basis identified in the General Objections above and incorporates those bases herein.

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Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding the history or evolution of Cache-Busting" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, and 17-18.

REQUEST FOR PRODUCTION NO. 100:

All Documents comparing Cache-Busting using content-based identifiers with Content-Based ETags or Fingerprints to other forms of Cache-Busting, including the advantages of Cache-Busting using content-based identifiers with ETags or Fingerprints.

RESPONSE TO REQUEST FOR PRODUCTION NO. 100:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain. Twitch objects to this request to the extent it seeks information not in Twitch's possession, custody or control.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking

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information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term "Content-Based ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Content-Based ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrases "content-based identifiers" and "advantages of Cache-Busting using content-based identifiers" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as they do not identify the items or features with specificity.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents comparing Cache-Busting using content-based identifiers with Content-Based ETags or Fingerprints to other forms of Cache-Busting." Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, and 98.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show any value of caching to Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

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REQUEST FOR PRODUCTION NO. 101:

All Documents regarding Your choice of Cache-Busting using content-based identifiers with ETags or Fingerprints used with the Accused Instrumentality, instead of some other form of Cache-Busting.

RESPONSE TO REQUEST FOR PRODUCTION NO. 101:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term "ETags" on the basis identified in the General Objections above

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and incorporates those bases herein. Twitch will interpret "ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to the undefined phrase "form of Cache-Busting" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding Your choice of Cache-Busting using content-based identifiers." Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 43, 45, 78, and 97.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show any value of caching to Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 102:

All Documents regarding the ease or difficulty of switching from Cache-Busting using content-based identifiers with ETags or Fingerprints, to some other form of Cache-Busting.

RESPONSE TO REQUEST FOR PRODUCTION NO. 102:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch

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objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain. Twitch objects to this request to the extent it seeks information not in Twitch's possession, custody or control.

Twitch objects to the term "ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch further objects to this request as prematurely seeking expert testimony before the time called for by the Local Rules and the Court's case schedule.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show any value of caching to Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control

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and can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 103:

All Documents regarding the costs associated with switching from Cache-Busting using content-based identifiers with ETags or Fingerprints, to some other form of Cache-Busting.

RESPONSE TO REQUEST FOR PRODUCTION NO. 103:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain. Twitch objects to this request to the extent it seeks information not in Twitch's possession, custody or control.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks

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information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term "ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "costs associated with switching from Cache-Busting using content-based identifiers with Content-Based ETags or Fingerprints" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding the costs associated with switching from Cache-Busting using content-based identifiers." Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 98, and 100.

Twitch further objects to this request as prematurely seeking expert testimony before the time called for by the Local Rules and the Court's case schedule.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show any value of caching to Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

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REQUEST FOR PRODUCTION NO. 104:

All Documents showing the relative cost of Cache-Busting using content-based identifiers with ETags or Fingerprints, as compared to other forms of Cache-Busting.

RESPONSE TO REQUEST FOR PRODUCTION NO. 104:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain. Twitch objects to this request to the extent it seeks information not in Twitch's possession, custody or control.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term "ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "ETags" to mean ETags calculated based

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on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "relative cost of Cache-Busting using content-based identifiers" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents showing the relative cost of Cache-Busting using content-based identifiers." Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 98, 100, and 103.

Twitch further objects to this request as prematurely seeking expert testimony before the time called for by the Local Rules and the Court's case schedule.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show any value of caching to Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 105:

All Documents showing whether forms of Cache-Busting other than using content-based identifiers with ETags or Fingerprints, can be used with online advertising.

RESPONSE TO REQUEST FOR PRODUCTION NO. 105:

Fenwick & West LLP attorneys at Law

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Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to Personal Web in the public domain. Twitch objects to this request to the extent it seeks information not in Twitch's possession, custody or control.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term "ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash

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algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrases "forms of Cache-Busting" other than using content-based identifiers with ETags or Fingerprints" and "online advertising" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as they do not identify the items or features with specificity.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents showing whether forms of Cache-Busting other than using content-based identifiers with ETags or Fingerprints, can be used with online advertising" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 98, 100, 103 and 104.

Twitch further objects to this request as prematurely seeking expert testimony before the time called for by the Local Rules and the Court's case schedule.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show any value of caching to Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 106:

All Documents showing the manner in which the Accused Instrumentality employs Cache-Busting.

RESPONSE TO REQUEST FOR PRODUCTION NO. 106:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of

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confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain. Twitch objects to this request to the extent it seeks information not in Twitch's possession, custody or control.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to the term "Cache-Busting" on the basis identified in the General Objections above and incorporates those bases herein.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "employs Cache-Busting" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents showing the manner in which the Accused Instrumentality employs Cache-Busting" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 43, 45, 78, and 97.

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Twitch further objects to this request as prematurely seeking expert testimony before the time called for by the Local Rules and the Court's case schedule.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show the technical design, operation, and functionality of the accused features of Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents existed in Twitch's possession, custody, or control and can be identified upon a reasonable search.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 107:

All Documents that compare Your revenues with the revenues of Microsoft Azure.

RESPONSE TO REQUEST FOR PRODUCTION NO. 107:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information not in Twitch's possession,

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custody or control.

Twitch objects to this request as overbroad, nonsensical unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information regarding comparisons with a cloud services provider, which Twitch and Twitch.tv do not provide.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "Microsoft Azure" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents that compare Your revenues with the revenues of Microsoft Azure" without connection to any accused functionality in the case.

REQUEST FOR PRODUCTION NO. 108:

All Documents regarding the success of Your Accused Instrumentality because it involves Cache-Busting using content-based identifiers with Content-Based ETags or Fingerprints.

RESPONSE TO REQUEST FOR PRODUCTION NO. 108:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any

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protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Content-Based ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Content-Based ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "involves Cache-Busting" using content-based identifiers with ETags or Fingerprints" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding the success of Your Accused Instrumentality because it involves Cache-Busting." Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 43, 45, 78, and 97.

Twitch further objects to this request as prematurely seeking expert testimony before the time called for by the Local Rules and the Court's case schedule.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show any value of caching to Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for

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the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 109:

All Documents regarding alternative forms of Cache-Busting other than Cache-Busting using content-based identifiers with Content-Based ETags or Fingerprints.

RESPONSE TO REQUEST FOR PRODUCTION NO. 109:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain. Twitch objects to this request to the extent it seeks information not in Twitch's possession, custody or control.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking

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information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term "Content-Based ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Content-Based ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "alternative forms of Cache-Busting other than Cache-Busting using content-based identifiers with ETags or Fingerprints" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding alternative forms of Cache-Busting other than Cache-Busting using content-based identifiers" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 98, 100, 103, and 104.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch has already agreed to produce non-privileged, non-protected documents sufficient to show the value of caching to Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States in response to Request for Production Nos. 9, 14, 17-18, 98, 100, 103, and 104.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

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REQUEST FOR PRODUCTION NO. 110:

All Documents showing Your use of Cache-Busting using content-based identifiers with Content-Based ETags or Fingerprints on the home page of Your website.

RESPONSE TO REQUEST FOR PRODUCTION NO. 110:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term Your on the bases identified in the General Objections above and incorporates those bases herein. Twitch will interpret this term to refer to Twitch Interactive, Inc. only.

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Twitch objects to the term "Content-Based ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Content-Based ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrases "use of Cache-Busting using content-based identifiers with Content-Based ETags or Fingerprints" and "Your website" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as they do not identify the items or features with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents showing Your use of Cache-Busting using content-based identifiers with Content-Based ETags or Fingerprints on the home page of Your website" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 43, 45, 78, 97, and 108.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show the costs and benefits of using a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file or ETags calculated based on contents of a corresponding file during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search, and have not already been produced in response to prior requests.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement,

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amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 111:

All Documents showing Your use of Cache-Busting using content-based identifiers with Content-Based ETags or Fingerprints in connection with streaming video on Your website.

RESPONSE TO REQUEST FOR PRODUCTION NO. 111:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to the term Your on the bases identified in the General Objections above and

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incorporates those bases herein. Twitch will interpret this term to refer to Twitch Interactive, Inc. only.

Twitch objects to the term "Content-Based ETags" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Content-Based ETags" to mean ETags calculated based on contents of a corresponding file.

Twitch objects to the terms "Cache-Busting" and "Fingerprint" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Fingerprint" to mean a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrases "the use by AWS of Cache-Busting using content-based identifiers with ETags or Fingerprints" and "Your website" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as they do not identify the items or features with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular time period and/or geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents showing Your use of Cache-Busting using content-based identifiers with Content-Based ETags or Fingerprints on the home page of Your website" without connection to any accused functionality in the case. Twitch objects to this request as unreasonably duplicative and/or redundant of Request Nos. 9, 14, 17-18, 43, 45, 78, 97, 108 and 110.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show the costs and benefits of using a Ruby on Rails fingerprint or a similar value that is calculated via a hash algorithm and that renders the name of a file dependent on the contents of the file or ETags calculated based on contents of a corresponding file during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search, and have not already

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been produced in response to prior requests.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 112:

All Documents showing Your costs and the amount of money You spent on bandwidth to serve content during the Relevant Time Period.

RESPONSE TO REQUEST FOR PRODUCTION NO. 112:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request as it seeks information that is neither relevant to any claim or defense in this action nor proportional to the needs of the case. "All Documents showing Your costs and the amount of money You spent on bandwidth to serve content" is not limited to the accused technology and thus is not relevant to any claims or defenses in this dispute.

Twitch objects to the terms Your and You on the bases identified in the General Objections above and incorporates those bases herein. Twitch will interpret these terms to refer to Twitch Interactive, Inc. only.

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Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrases "bandwidth" and "serve content" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as they do not identify the items or features with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents showing Your costs and the amount of money You spent on bandwidth to serve content" without connection to any accused functionality in the case.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch has already produced non-privileged, non-protected documents sufficient to show Twitch's revenue, costs, and pricing for Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 113:

All Documents showing Your options to acquire bandwidth to serve content from Your website during the Relevant Time Period, including documents identifying those options and costs associated therewith.

RESPONSE TO REQUEST FOR PRODUCTION NO. 113:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

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Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request as it seeks information that is neither relevant to any claim or defense in this action nor proportional to the needs of the case. "All Documents showing Your options to acquire bandwidth to serve content from Your website" is not limited to the accused technology and this is not relevant to any claims or defenses in this dispute.

Twitch objects to the terms Your and You on the bases identified in the General Objections above and incorporates those bases herein. Twitch will interpret these terms to refer to Twitch Interactive, Inc. only.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrases "acquire bandwidth," "serve content," and "Your website" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as they do not identify the items or features with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents showing Your options to acquire bandwidth to serve content from Your website" without connection to any accused functionality in the case.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch has already produced non-privileged, non-protected documents sufficient to show the cost of operation of the www.twitch.tv website during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control and can be identified upon a reasonable search.

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Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 114:

All Documents regarding the data structure that stored URIs in Your Accused Instrumentality during the Relevant Time Period.

RESPONSE TO REQUEST FOR PRODUCTION NO. 114:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to this request to the extent it seeks information equally available to PersonalWeb in the public domain.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request as overbroad, unduly burdensome, vague, ambiguous, exceeding the boundaries of discoverable information, failing to describe the information sought with the required reasonable particularity, not proportional to the needs of the case, and/or seeking

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information that is not relevant to any claim or defense in this action to the extent that it seeks information about the aspects of the accused technology not specifically accused in PersonalWeb's Infringement Contentions.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "data structure" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding the data structure that stored URIs in Your Accused Instrumentality" without connection to any accused functionality in the case.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch has already made available for inspection, pursuant to the terms of the protective order, source code reflecting the operation of the accused Twitch.tv website available in the United States, including the revisions to that code that existed between September 14, 2012 through December 26, 2016.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

REQUEST FOR PRODUCTION NO. 115:

All Documents regarding the transmission of HTTP 200 or HTTP 304 messages in response to HTTP Conditional GET Requests by Your Accused Instrumentality during the Relevant Time Period, including server logs showing the date or time stamping of the same.

RESPONSE TO REQUEST FOR PRODUCTION NO. 115:

Twitch incorporates by reference its General Objections as if fully set forth herein. Twitch objects to this request to the extent it seeks information protected by the attorney-client privilege, attorney work-product doctrine, joint defense privilege, common interest exception, duty of

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confidentiality, or any other applicable privilege, immunity, doctrine or protection. Twitch objects to this request to the extent it seeks to impose upon Twitch obligations broader than, different from, or in addition to those obligations imposed by the Federal Rules, the Local Rules, case law, or any applicable order of the Court.

Twitch objects to this request to the extent it seeks information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party. Twitch further objects to this request to the extent that it purports to require Twitch to disclose private or personally-identifiable information of its employees, customers, or users. Twitch does not intend to provide such information without the consent of the relevant persons or a court order.

Twitch objects to the term "Accused Instrumentality" on the basis identified in the General Objections above and incorporates those bases herein. Twitch will interpret "Accused Instrumentality" as Twitch.tv only.

Twitch objects to this request because it is grossly overbroad and is not relevant to any issue in this case. For example, the request on its face seeks information relating to web servers that Twitch relies on, including their location, even if servers are not directly related to provision of the specific Twitch.tv services and features accused in this litigation. Twitch's use of web server networks, without specific limitations to Twitch.tv, is not relevant to this case.

Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible. For example, Twitch objects to the undefined phrase "server logs" as vague and ambiguous, overly broad, unduly burdensome, and not proportional to the needs of the case, as it does not identify the item or feature with specificity.

Twitch objects to this request as overbroad and irrelevant because it is not limited to a particular geographic area relevant to the case. Twitch objects to this request as vague and ambiguous, overly broad, unduly burdensome, and unintelligible in that it seeks "[a]ll Documents regarding the data structure that stored URIs in Your Accused Instrumentality" without connection to any accused functionality in the case.

Subject to and without waiving any objections, Twitch responds as follows:

Twitch will produce non-privileged, non-protected documents sufficient to show the processing of HTTP 200 or HTTP 304 messages supported by Twitch.tv during the time period of September 14, 2012 to December 26, 2016 for the United States, to the extent such documents exist in Twitch's possession, custody, or control, can be identified upon a reasonable search, and have not yet been produced.

Investigation and discovery are ongoing, and Twitch reserves the right to supplement, amend, or modify its response to this request as additional facts are learned and as otherwise appropriate.

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Dated: July 31, 2019

Respectfully submitted,

FENWICK & WEST LLP

By: <u>/s/ Saina Shamil</u>ov

J. David Hadden (CSB No. 176148) Saina S. Shamilov (CSB No. 215636) Todd R. Gregorian (CSB No. 236096) Ravi R. Ranganath (CSB No. 272981) Shannon E. Turner (CSB No. 310121) Chieh Tung (CSB No. 318963)

Counsel for TWITCH INTERACTIVE, INC.

1 **CERTIFICATE OF SERVICE** 2 The undersigned declares as follows: 3 I am a citizen of the United States and employed in Santa Clara County, State of 4 California. I am over the age of eighteen years and not a party to the within-entitled action. My 5 business address is Fenwick & West LLP, 801 California Street, Mountain View, CA 94041. On the date set forth below, I served a copy of the following document(s): 6 7 RESPONSES AND OBJECTIONS OF TWITCH INTERACTIVE, INC. TO PERSONALWEB TECHNOLOGIES, LLC'S THIRD SET OF 8 **REQUESTS FOR PRODUCTION (NOS. 84–115)** 9 on the interested parties in the subject action by placing a true copy thereof as indicated below, 10 addressed as follows: 11 Michael A. Sherman Jose L. Patino 12 Jeffrey F. Gersh Christopher C. Bolten Sandeep Seth FOLEY & LARDNER LLP 13 Wesley W. Monroe 3579 Valley Center Drive, Suite 300 Stanley H. Thompson, Jr. San Diego, CA 92130 14 Viviana Boero Hedrick Email: jpatino@foley.com STUBBS, ALDERTON & MARKLES, LLP cbolten@foley.com 15 15260 Ventura Blvd., 20th Floor Sherman Oaks, CA 91403 16 Email: masherman@stubbsalderton.com igersh@stubbsalderton.com 17 sseth@stubbsalderton.com wmonroe@stubbsalderton.com 18 sthompson@stubbsalderton.com vhedrick@stubbsalderton.com 19 Theodore Stephen Maceiko 20 MACEIKO IP 420 2nd Street 21 Manhattan Beach, CA 90266 Email: ted@maceikoip.com 22 23 **BY US MAIL:** by placing the document(s) listed above in a sealed envelope for collection and mailing following our ordinary business practices. I am readily familiar 24 with our ordinary business practices for collecting and processing mail for the United States Postal Service, and mail that I place for collection and processing is regularly 25 deposited with the United States Postal Service that same day with postage prepaid. 26 27

1 2	BY OVERNIGHT COURIER: by placing the document(s) listed above in a sealed envelope with a prepaid shipping label for express delivery and causing such envelope to be transmitted to an overnight delivery service for delivery by the next business day in the ordinary course of business.
3	BY FACSIMILE: by causing to be transmitted via facsimile the document(s) listed above to the addressee(s) at the facsimile number(s) set forth above.
5	BY E-MAIL: by causing to be transmitted via e-mail the document(s) listed above to the addressee(s) at the e-mail address(es) listed above.
6	BY PERSONAL DELIVERY: by causing to be personally delivered the document(s) listed above to the addressee(s) at the address(es) set forth above.
7	instea above to the addressee(s) at the address(es) set forth above.
8	I declare under penalty of perjury under the laws of the State of California and the United
9	States that the above is true and correct.
10	Date: July 31, 2019
11	/s/ Crystal Nwaneri
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